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NOTICE OF ALLOWANCE AND FEE(S) DUE

22879 7590 07/03/2008 HEWLETT PACKARD COMPANY P O BOX 272400, 3404 E. HARMONY ROAD INTELL ECTITAL PROPERTY ADMINISTRATION

FORT COLLINS, CO 80527-2400

EXAMINER
FREID, RUSSELL WARREN

PAPER NUMBER

2128
DATE MAILED: 07/03/2008

 APPLICATION NO.
 FILING DATE
 FIRST NAMED INVENTOR
 ATTORNEY DOCKET NO.
 CONFIRMATION NO.

 09/766,615
 07/26/2001
 Glenn Ferguson
 200704485-8
 8.359

TITLE OF INVENTION: DATA MODEL FOR AUTOMATED SERVER CONFIGURATION

 APPLN. TYPE
 SMALL ENTITY
 ISSUE FEE DUE
 PUBLICATION FEE DUE
 PREV. PAID ISSUE FEE
 TOTAL FEE(s) DUE
 DATE DUE

 nonprovisional
 NO
 \$1440
 \$300
 \$0
 \$1740
 10/03/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further indicated unless correcte maintenance fee notificat	form should be used I correspondence including d below or directed off tions.	or trang the terwise	nsmitting the ISSU Patent, advance or in Block 1, by (a	E FEE and PUBLICA' ders and notification of t) specifying a new corr	FION FEE (if requestion of the property of the	iired). l will be ; and/o	Blocks 1 through 5 s mailed to the current r (b) indicating a sepa	hould be completed where correspondence address as trate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)					Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
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FORT COLLINS	S, CO 80527-2400							(Depositor's name)
								(Signature)
								(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN		OR AT		RNEY DOCKET NO.	CONFIRMATION NO.
09/766,615	07/26/2001		Glenn Ferguson		200704485-8		200704485-8	8359
TITLE OF INVENTION								
APPLN, TYPE	SMALL ENTITY	IS	SUE FEE DUE	PUBLICATION FEE DUE		E PEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO		\$1440	\$300	\$0		\$1740	10/03/2008
EXAM	INER		ART UNIT	CLASS-SUBCLASS	╛			
FREJD, RUSSE	ELL WARREN		2128	703-022000				
"Fee Address" indi PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME Al	ondence address (or Cha 3/122) attached. ication (or "Fee Address 2 or more recent) attack ND RESIDENCE DAT. ess an assignee is ident h in 37 CFR 3.11. Comp	nge of " Indic ed. Us	Correspondence ation form e of a Customer BE PRINTED ON T		to 3 registered pate tively, gle firm (having as agent) and the nan orneys or agents. If e printed. ype) patent. If an assign assignment.	nt attorn a memb nes of u 'no nan	per a 2p to ne is 3	ocument has been filed for
Please check the appropri	iate assignee category or	catego	ories (will not be pr	inted on the patent):	Individual 🗆 C	orporat	ion or other private gro	oup entity Government
4a. The following fee(s) are submitted: Issue Fee Publication Fee (No small entity discount permitted) Advance Order - # of Copies			ed)	h. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).				
	s SMALL ENTITY state	ıs. See	37 CFR 1.27.	b. Applicant is no lo				
interest as shown by the r	records of the United Sta	tes Pat	ent and Trademark	Office.	tue applicant, a reg	istereu	attorney or agent, or ti	ne assignee or other party in
Authorized Signature					Date			
Typed or printed name					-			
This collection of informan application. Confident submitting the completed this form and/or suggestit Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C tiality is governed by 35 I application form to the ons for reducing this bu irginia 22313-1450. DO 13-1450.	FR 1.3 U.S.C USP1 rden, sl O NOT	811. The informatic . 122 and 37 CFR O. Time will vary hould be sent to the SEND FEES OR O	on is required to obtain or 1.14. This collection is e depending upon the ind e Chief Information Offi COMPLETED FORMS	retain a benefit by stimated to take 12 ividual case. Any c cer, U.S. Patent and FO THIS ADDRES	the pub minute ommen Trader S. SEN	lic which is to file (and s to complete, including ts on the amount of ti- nark Office, U.S. Dep D TO: Commissioner	I by the USPTO to process) g gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,

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COMMISSIONER FOR PATENTS P O Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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HEWLETT PAG	CKARD COMPANY	FREID, RUSSELL WARREN		
P O BOX 272400, 3404 E. HARMONY ROAD			ART UNIT	PAPER NUMBER
INTELLECTUAL	. PROPERTY ADMIN	2128		

FORT COLLINS, CO 80527-2400

DATE MAILED: 07/03/2008

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 526 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 526 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

International Bureau (PCT Rule 17.2(a)).

Application No.	Applicant(s)
09/766,615	FERGUSON ET AL.
Examiner	Art Unit
Russell Freid	2128

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included

herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course, THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiativ of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.
1. This communication is responsive to the amendment received 28 February 2008.
2. The allowed claim(s) is/are 1.4 and 7-18.
3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some* c) ☐ None of the:
 Certified copies of the priority documents have been received.
 Certified copies of the priority documents have been received in Application No

3. Copies of the certified copies of the priority documents have been received in this national stage application from the

* Certified copies not received: . .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. 🔲 A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT	or NOTICE OF
INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.	

- CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date (b) I including changes required by the attached Examiner's Amendment / Comment or in the Office action of

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6.

DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2. Notice of Draftperson's Patent Drawing Review (PTO-948)
- Information Disclosure Statements (PTO/SB/08). Paper No./Mail Date
- 4. T Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date
- 7. X Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. ☐ Other _____.

Page 2

Application/Control Number: 09/766,615

Art Unit: 2128

Allowance of Application # 09/766,615

 The following communication is in response to applicant's amendment received 28-February-2008. Claims 1, 4, and 7-18 are pending in the application. Claims 2, 3, 5, and 6 are canceled.

Examiner's Amendment

- An Examiner's Amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 C.F.R.
 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the Issue Fee.
- 2.1 In the Specification:

Page 11 line 11 Change "U.S. Patent Application Serial No. _____" to --U.S.

Patent No. 7,124,289--.

2.2 In the Claims:

Claim 1 line 14 Change "DNS domain masters" to --DNS domain masters

entities--.

Reasons for Allowance

The following is an Examiner's Statement of Reasons for the indication of allowable subject matter. Application/Control Number: 09/766,615 Art Unit: 2128

3.1 Claims 1, 4, and 7-18 are considered allowable, since when reading the claims in light of the specification, as per MPEP § 2111.01, none of the references of record alone or in combination disclose or suggest the combination of limitations specified in independent claims nos. 1 and 7, including: (in regard to claim 1)

configuring a central database to be able to implement the DNS data model [defined at p. 4, line 19 through p. 5, line 14], the DNS data model including- DNS domains entities that represent DNS domains of devices connected to a computer network and are related to various entities representing DNS permissions and types selected from the group consisting of DNS ACLs entities [p. 75, line 12 through p. 76, line 3], DNS ACL entries entities [p. 76, line 5 through p. 76, line 15], DNS allow transfers entities [p. 77, line 1 through p. 78, line 2], DNS allow queries entities, DNS domain types entities p. 79, line 1 through p. 80, line 24], DNS domain masters entities [p. 82, lines 1-14], and DNS master IPs entities [p. 83, lines 1-15]; and DNS hosts entities that represent various DNS hosts connected to the computer network [p. 74, line 1 through p. 75, line 10]; and automatically provisioning the computer network according to the DNS data model [p. 107, lines 9-20].

Dependent claims 4 and 8-18 are deemed allowable as depending either directly or indirectly from independent claims 1 and 7.

3.2 The instant application is directed to a non-obvious improvement over the information described in the article authored by Rabinovich et al., entitled RaDaR: a scalable architecture for a global Web hosting service, which discloses monitoring the load of a large pool of servers and migrating or replicating objects among them to distribute their load and to move replicas closer to the requesting clients.

Application/Control Number: 09/766,615 Page 4

Art Unit: 2128

 ${f 3.3}$ The art of record, either individually or in combination, fails to teach, suggest, or render

obvious the specific arrangement of elements in the same combination as now required by the

amended claims. In view of the foregoing, the claims of the present application are found to be

patentable over the prior art.

Response Guidelines

4. Any comments considered necessary by applicant MUST be submitted no later than the

payment of the Issue Fee and, to avoid processing delays, should preferably accompany the Issue Fee. Such submissions should clearly be labeled "Comments on Statement of Reasons"

for Allowance"

4.1 Any response to the Examiner in regard to this allowance should be

directed to: Russell Frejd, telephone number (571) 272-3779, Monday-Friday

from 0530 to 1400 ET, **or** the examiner's supervisor, Kamini Shah, telephone number (571) 272-2279. Inquires of a general nature or relating to the status of this application should be directed to the

TC2100 Group Receptionist (571) 272-2100.

mailed to: Commissioner of Patents and Trademarks

P.O. Box 1450, Alexandria, VA 22313-1450

or faxed to: (571) 273-8300

Hand-delivered responses should be brought to the Customer Service Window, Randolph

Building, 401 Dulany Street, Alexandria, VA, 22314.

Date: 5-June-2008 /Russell Freid/

Primary Examiner AU 2128